

Title (en)  
ROLLING TOOL AND METHOD

Title (de)  
WALZWERKZEUG UND VERFAHREN

Title (fr)  
OUTIL DE LAMINAGE ET PROCEDE

Publication  
**EP 2673116 A1 20131218 (DE)**

Application  
**EP 12704264 A 20120210**

Priority  
• DE 102011000618 A 20110210  
• DE 102011050662 A 20110526  
• EP 2012052357 W 20120210

Abstract (en)  
[origin: WO2012107582A1] Disclosed is a rolling tool which serves for working - in particular rolling smooth - an inner lateral surface of a cylindrical clearance. For this purpose, the rolling tool has at least one rolling body, which is held in the rotatably drivable rolling tool, and can be taken along by said tool on a peripheral path along the inner lateral surface. In this case, the at least one rolling body is inserted into a radial clearance in the rolling tool and can be subjected to a pressurized fluid from the inside to the outside along the radial clearance. According to the invention, the fluid is an aerosol. The aerosol is a fluid mixed with gas and serves for hydrostatic bearing and lubrication. In this case, the amount of fluid required is reduced in comparison with the prior art - on the basis of minimal quantity lubrication (MQL).

IPC 8 full level  
**B24B 39/02** (2006.01)

CPC (source: EP KR US)  
**B24B 39/003** (2013.01 - KR); **B24B 39/02** (2013.01 - KR); **B24B 39/023** (2013.01 - EP US); **B24B 55/02** (2013.01 - EP US);  
**Y10T 29/47** (2015.01 - EP US)

Citation (search report)  
See references of WO 2012107582A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012107582 A1 20120816**; BR 112013020278 A2 20171114; CN 103442848 A 20131211; CN 103442848 B 20160928;  
DE 102011050662 A1 20120816; DE 102011050662 B4 20150528; EP 2673116 A1 20131218; EP 2673116 B1 20140806;  
ES 2523293 T3 20141124; JP 2014504962 A 20140227; JP 5670585 B2 20150218; KR 101643673 B1 20160728; KR 20140002747 A 20140108;  
KR 20160032280 A 20160323; MX 2013009073 A 20140611; PL 2673116 T3 20150130; US 2013340222 A1 20131226;  
US 9616546 B2 20170411

DOCDB simple family (application)  
**EP 2012052357 W 20120210**; BR 112013020278 A 20120210; CN 201280008463 A 20120210; DE 102011050662 A 20110526;  
EP 12704264 A 20120210; ES 12704264 T 20120210; JP 2013552978 A 20120210; KR 20137022745 A 20120210;  
KR 20167006809 A 20120210; MX 2013009073 A 20120210; PL 12704264 T 20120210; US 201213984740 A 20120210